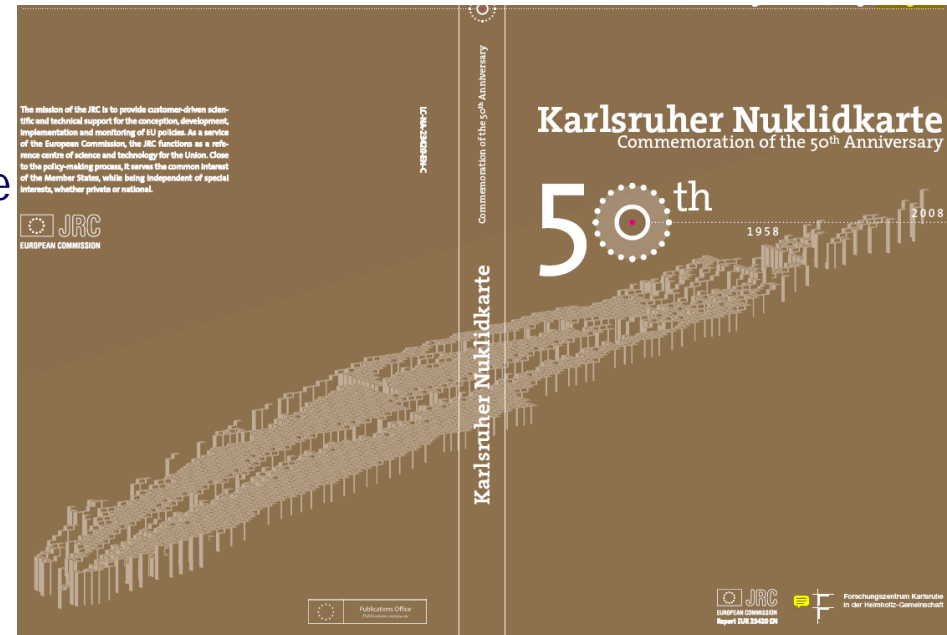


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- This commemorative publication provides a broad, state of the art overview of scientific research in the nuclear sciences.
- In total there are 30 scientific articles written by experts in their various fields together with the historical Nobel lectures by Becquerel and Soddy.
- The chapters are arranged as follows
 - history
 - experimental developments
 - quarks and strong interaction
 - beta decay and neutrinos
 - nuclides and radioactivity
 - nuclear data
 - biophysics and medical applications,
 - dating and nuclear forensics.



Articles cover fundamental and theoretical aspects of nuclear physics and chemistry including the discovery of new elements and decay modes, neutrinos, quarks, antimatter, and dark matter. Technological developments are described in a series of articles ranging from space radiation biophysics and health care to archaeological dating, forensics and cultural heritage.



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**KARLSRUHER NUKLIDKARTE - COMMEMORATION OF THE 50TH ANNIVERSARY
at the Gartensaal, Karlsruhe Castle (Schloss), 9-10 December 2008**

AGENDA

09 December

10:00-10:05	OPENING BY THE CHAIRMAN	TH. FANGHÄNEL	JOINT RESEARCH CENTRE – INSTITUTE FOR TRANSURANIUM ELEMENTS (ITU)
10:05-10:20	WELCOME AND INTRODUCTION	R. SCHENKEL	DIRECTOR GENERAL EUROPEAN COMMISSION JOINT RESEARCH CENTRE
10:20-10:25	WELCOME FROM CITY KARLSRUHE	M. MERGEN	DEPUTY MAYOR KARLSRUHE
10:25-10:30	WELCOME FROM FORSCHUNGS- ZENTRUM KARLSRUHE	P. FRITZ	MEMBER OF THE EXECUTIVE BOARD, FORSCHUNGSZENTRUM KARLSRUHE
10:30-11:00	NUCLIDE CHART HISTORY	C. NORMAND	JOINT RESEARCH CENTRE – INSTITUTE FOR TRANSURANIUM ELEMENTS (ITU)
11:00-11:30	EVOLUTION OF THE UNIVERSE	F.K. THIELEMAN	UNIVERSITY OF BASEL
11:30-11:45	COFFEE BREAK		
11:45-12:15	ANTIPARTICLES & ANTIMATTER	A. ZICHICHI	CERN
12:15-12:45	APPLICATION OF ALPHA-EMITTERS FOR CANCER THERAPY	A. MORGENSTERN	JOINT RESEARCH CENTRE – INSTITUTE FOR TRANSURANIUM ELEMENTS (ITU)
12:45-13:15	APPLICATION OF NUCLEAR SCIENCE TO CULTURAL HERITAGE	W. KUTSCHERA	UNIVERSITY OF VIENNA
13:15-14:30	BUFFET LUNCH		
	PRESS BRIEFING	MEDIA	
14:30-15:00	BETA-DELAYED CHARGED PARTICLES	M.J. GARCIA BORGE	CSIC, INSTITUTO DE ESTRUCTURA DE LA MATERIA
15:00-15:30	CHEMISTRY OF SUPERHEAVY ELEMENTS	A. TÜRLE	UNIVERSITY OF MUNICH
15:30-16:00	SUPER- AND HYPERDEFORMED ISOMERIC STATES	A. MARINOV	RACAH INSTITUTE OF PHYSICS, UNIVERSITY OF JERUSALEM
16:00-16:30	HEAVIEST NUCLEI	Y. OGANESSIAN	JINR, FLEROV LABORATORY OF NUCLEAR REACTIONS
16:30-16:45	COFFEE BREAK		
16:45-17:15	BETA DECAY AND STELLAR NUCLEOSYNTHESIS	F. BOSCH	GSI, HELMHOLTZZENTRUM FÜR SCHWERIONENFORSCHUNG
17:15-17:45	KATRIN: HUNTING NEUTRINO MASSES	G. DREXLIN	INSTITUT FOR NUCLEAR PHYSICS, FORSCHUNGSZENTRUM KARLSRUHE

Enjoy yourselves!